

AISSCE 2015

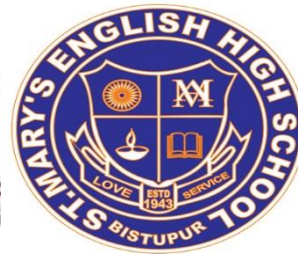
C++

PROJECT ON  
HOTEL MANAGEMENT SYSTEM

NAME :

ROLL :

## Certificate



This is to certify that the project Hotel Management System of the module Further Programming Concepts have been successfully completed by **Prince Kumar** Intake No.**PT1082219** of level 2. The project has been covered all the required areas in an appropriate manner.

**SIGNATURE OF INTERNAL EXAMINER**

**SIGNATURE OF EXTERNAL EXAMINER**

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## Acknowledgment

*"Gratitude is the fairest blossom which springs from the soul"*

Feeling gratitude and not expressing it is like wrapping a present and not giving it. We take this opportunity to convey our heartfelt gratitude to each and every one who has supported us in every way or the other during the course of our project.

From the very core of our heart, we would like to express our sincere gratitude to Miss. Dipti for his supervisory guidance. We are always indebted to him for his kind support and constant encouragement and his enthusiasm to complete our project milestones.

It requires lots of efforts in terms of cooperation and support to fulfill various tasks involved during the project. We are always grateful to our peers and friends who have always encouraged us and guided us whenever we needed assistance.

We also take this opportunity to express our appreciation to all the participants involved during our preliminary research for their invaluable time to answer our queries and suggestions for the application to be developed.

Things always remain hidden in the shadow of the unsung heroes; still we would to thank all the people passively involved in the assignment, people who encouraged us day in and day out to make it a success.

At last but above all, we thank the Almighty for his blessings.

Prince Kumar

PT1082219

## INTRODUCTION

A typical luxury Hotel requires a management system to control its various operations such as maintaining account of all the people in its domain of services, attending to various needs of customers and also achieving increased efficiency in the overall working of the Hotel itself.

### 1.1 PURPOSE OF THE SYSTEM

The Hotel Management System aims to make simpler a staff's interaction with the various modules of the Hotel and ease the process of acquiring information and providing services. The system can be accessed by the admin and customers but the highest priority given to admin that are allocated a login id and password. It will also allow cutting the operational costs of the hotel.

### 1.2 SCOPE

In this system we will make extensive use of files system in C++. We will have a **login id** system initially. In this system we will be having separate functions for

- Getting the information
- Getting customer information who are lodged in
- Allocating a room to the customer
- Checking the availability
- Displaying the features of the rooms.
- Preparing a billing function for the customer according to his room no.

In the software developed separate functions will be there for each of the above points so that there is ample scope for adding more features in the near future.

# HEADER FILES

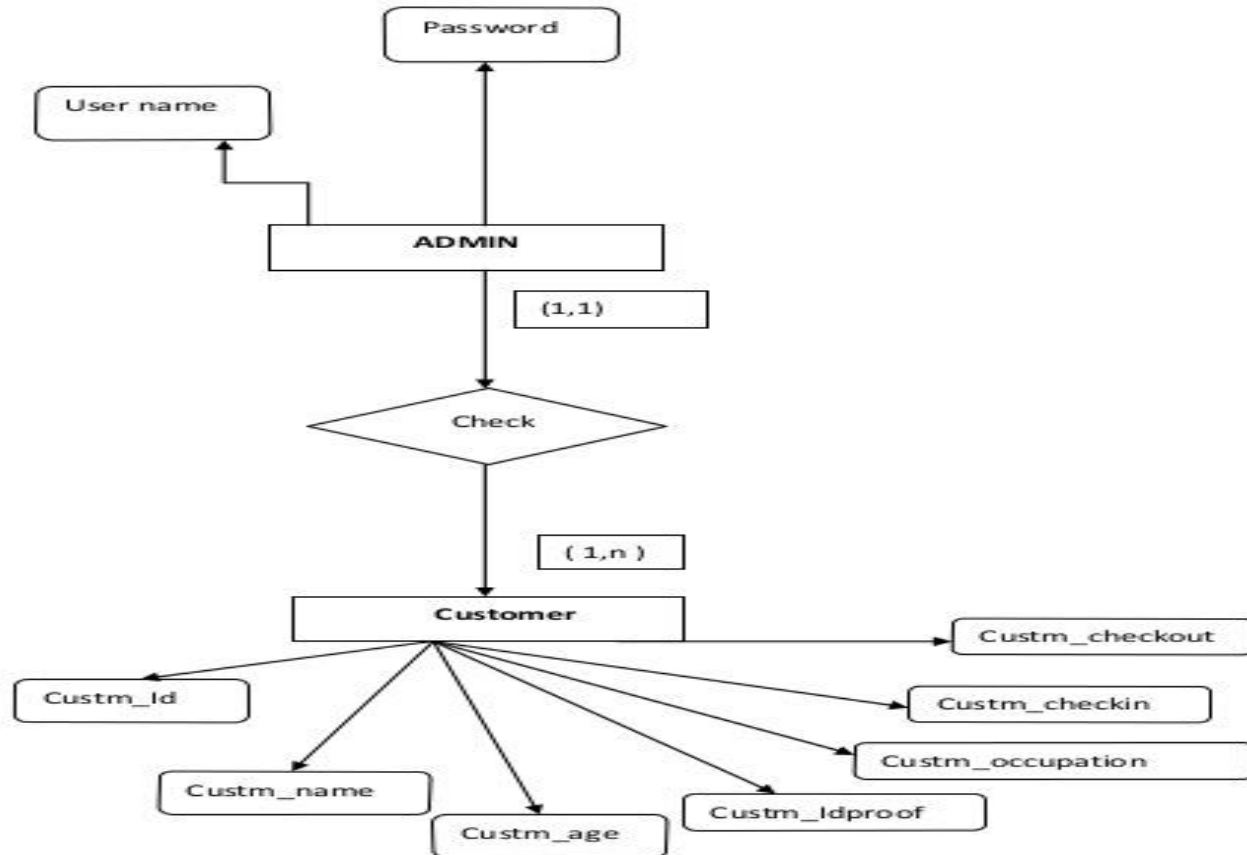
- IOSTREAM.H
- CONIO.H
- FSTREAM.H
- STRING.H
- MATH. H
- PROCESS.H
- CTYPE.H
- STDLIB.H

# CLASSES USED

- CUSTOMER
- ADMIN
- BILLING

# BASIC WORKING

## 2.3 ERD







**SOURCE CODE**

```

        cout<<"\nEnter Room Charge : ";
        cin>>room_charge;
if((check_inmonth==2) && (check_indate>29))
{
    cout<<"wrong input!!!\n";
    cout<<"\nenter the date again...\n";
    goto START;
}
if((check_inmonth>12)||(check_indate>31))
{
    cout<<"wrong input!!!\n";
    cout<<"\nenter the date again...\n";
    goto START;
}

if((check_inmonth==4||check_inmonth==6||check_inmonth==9||check_inmonth
==11) && (check_indate>30))
{
    cout<<"wrong input!!!\n";
    cout<<"\nenter the date again...\n";
    goto START;
}
if((check_inyear%4)!=0 && (check_inmonth==2) && (check_indate>28))
{
    cout<<"wrong input!!!\n";
    cout<<"\nenter the date again...\n";
    goto START;
}
}

```

We had use the validation in the administration login while entering the wrong user name & password it show the popup menu.

```

cout<<"\t\t\tUser Name = ";
cin>>username;
if(strcmp(username,"admin")==0)
{
    string pass ="";
    char ch;
    cout <<"\n\t\t\tPassword = ";
    ch = _getch();
    while(ch != 13)
    {

```

```

        pass.push_back(ch);
        cout << '*';
        ch = _getch();
    }
    if(pass == "admin")
    {
        cout << "\n\t\t" << "Access granted";
        do
        {
            }
        }
    }
}

```

## 5.0 Implementation

### WELCOME SCREEN:

```

void customer::welcomescreen()
{
    system("cls");
    cout << endl << endl << endl << endl;
    cout << "
                                COMPUTERISED MANAGEMENT SYSTEM
" << endl;
    cout << "
                                APIIT SD INDIA, PANIPAT    " << endl;
    cout << "
                                INDIVIDUAL ASSINGMENT    " << endl;
    cout << "
                                ON                        " << endl;
    cout << "
                                Further Programming Concepts in C++ " << endl;
    cout << "
                                (CE00314-2)              " << endl;
    cout << "
                                                                    " << endl;
    cout << endl << endl << endl << endl;
    cout << "
                                SUBMITTED BY:            SUBMITTED TO:
" << endl;
    cout << "
                                Prince kumar            Ms. Deepti Dhingra " << endl;
    cout << "
                                (PT082219)              (LECTURER)    " << endl;
    cout << endl << endl;
    cout << "
                                Press Enter to continue..." << endl << endl << endl <<
endl;
    getch();
}

```

## LOGIN SCREEN.

```
void customer::login_screen()
{
    time_t t;
    system("cls");

    t=time(NULL);
    cout<<"\n                "<<ctime(&t);
    customer c;
    t -= 24L*60L*60L;
    char choice;
    cout<< endl << endl << endl<< endl;
    cout<<"                LOGIN SCREEN\n";
    cout<<"
    _____ " << endl;
    cout<<"                1.Administrator Login\n";
    cout<<"                2.customer Login\n";
    cout<<"                3.Exit\n";
    cout<<"\n\n\n";
    cout<<"Enter Choice:: ";
    cin>>choice;
    switch(choice)
    {
    case '1':
        system("cls");
        c.main_screen();
        break;
    case '2':
        search_customer();
        break;
    case '3':
        exit(0);
        break;
    default:
        cout<<"wrong choice entered";
    }
}
```

### ADD CUSTOMER

```
void customer::add_customer()
{
    customer c;
    ofstream outf;
    outf.open("customer.txt",ios::out|ios::app|ios::binary);
    c.getdata();
    outf.write((char*)&c,sizeof(c));
    outf.close();
    _getch();
}
```

### SEARCH CUSTOMER

```
void customer::search_customer()
{
    fstream file;
    customer c;
    int i=1;
    char nam[25];
    file.open("customer.txt",ios::in);
    cout<<"\t\t\t customer Detail \n";
    cout<<"\t\t\t_____ \n\n";
    cout<<"\t\t\t\n Enter name to Search: ";
    cin>>nam;
    file.seekg(0,ios::beg);
    while(file.read((char *) &c, sizeof(customer)))
    {
        if(c.compare(nam))
        {
            cout<<"\t\t\t custm_id"<<"          "<<"custm_name \n"<<endl;
            cout<<"          "<<c.custm_id<<"          "<<c.custm_name ;
            cout<<"\n\t\t\t_____ ";
            cout<<"\n\t\t\t ...Thank you for using ^_^ ... ";
        }
        i++;
    }
    file.close();
    if(i)
    {
```



```

        cout<<"\n Select 1 for Super Luxury \n
Select 2 for Luxury \n Select 3 for Delux \n";
        cin>>b;
        if(b=1)
        {
            r_charge=4000;
        }
        else
        if(b=2)
        {
            r_charge=3000;
        }
        else
            if(b=3)
            {
                r_charge=2000;
            }
            else{
                cout<<"\n Wrong choice ...";
                cout<<"\n ERROR: Room is not
allocated.";
                cout<<"\n Bill cannot be created ";
            }
    }

```

```

        cout<<"\n Enter the bill amount of restaurant:";
        cin>>food;
        cout<<"\n Enter other charges:";
        cin>>oc;
        cout<<"\n Enter customer name:";
        cin>>custm_name;
        cout<<"\n Enter number of days:";
        cin>>r_day;
        room= r_charge * r_day;
        t=(int) room + food + oc;
        ser=(int)(0.05*t);
        total=t+ser;
    }

```

```

void display_bill()
{
    system("CLS");
}

```

```

cout<<"\n _____";
cout<<"\n _____";
cout<<"\n Marriott Luxury Hotel";
cout<<"\n _____";
cout<<"\n Chandigarh , Punjab-070. ";
cout<<"\n Tel :- 12253636";
cout<<"\n -----";
cout<<"\n Customer name : "<<<custm_name;
cout<<"\n ";
cout<<"\n Stayed for "<<<r_day<<" days";
cout<<"\n Room charges : "<<<r_charge<<"(Per day)";
cout<<"\n Room charges : "<<<room<<"(total)";
cout<<"\n Restaurant bill : "<<<food;
cout<<"\n Other charges : "<<<oc;
cout<<"\n Ser.tax % = 5%";
cout<<"\n Ser.tax = "<<<ser;
cout<<"\n Bill Amount >>>>>> Rs "<<<total;
cout<<"\n ";
cout<<"\n THANK YOU !!!!!";
cout<<"\n Visit Again !";
}

};

void customer::generate_bill()
{
    Generatebill b;
    b.calculate();
    b.display_bill();
}

```



# The Log In Screen

```
*****
*
*  *****
*  *
*  *   ENTER USER NAME  -> admin  *
*  *
*  *****
*
*  *****
*  *
*  *   ENTER PASSWORD   => ***   *
*  *
*  *****
*
*****
```



Fig : Login Screen

- ❖ Login screen for admin and for customer here admin have the highest priority where admin can add, delete, search, update and many more.
- ❖ Customer can view on availability of rooms

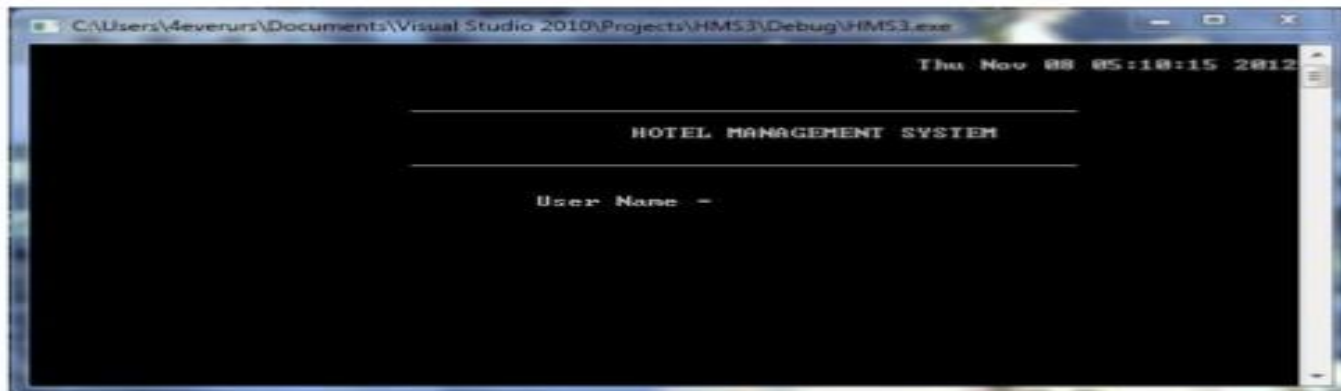


Fig : Admin Login

- ❖ Admin :- User name : admin  
Password: admin
- ❖ Login page for admin. it is for security purpose . no one can access admin page . only admin have the permission to handle records.

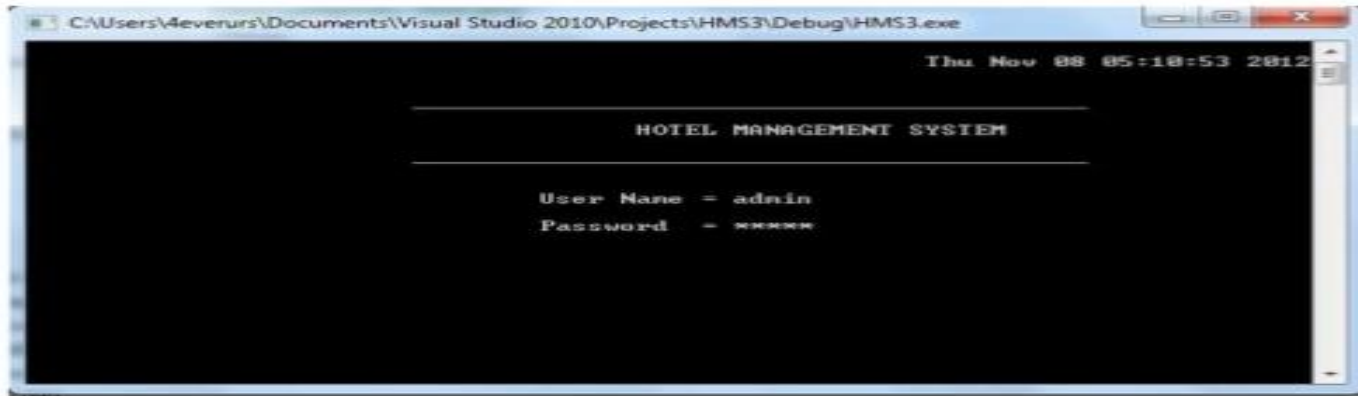


Fig : Admin Login

❖ Admin :- User name : admin  
Password: admin

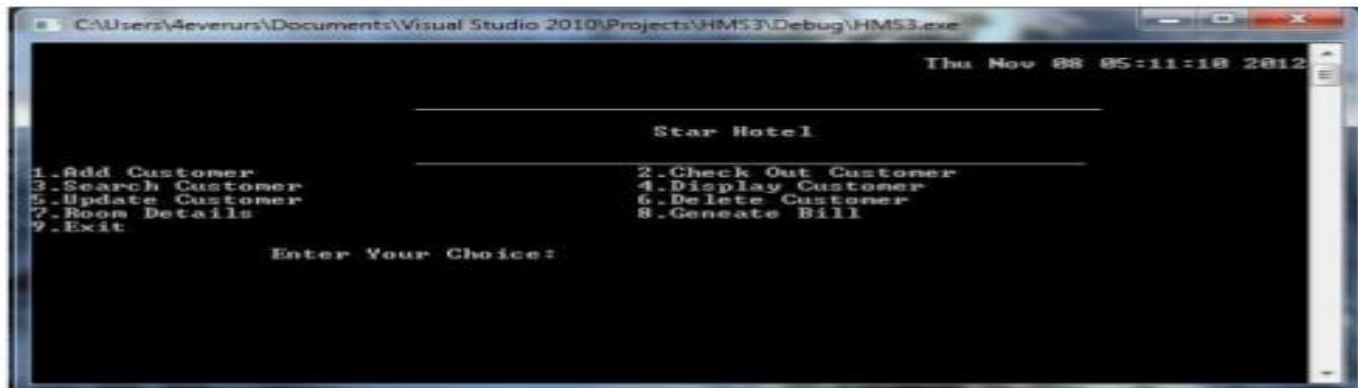


Fig : Admin screen

❖ Options to handle records.

# The Main Menu...

\*\*\*\*\* WELCOME TO SIXES HOTEL MANAGEMENT SYSTEM \*\*\*\*\*

```
*****
*
*   1 : NEW RESERVATION   *
*
*   2 : VIEW RESERVATION *
*
*   3 : SHOW ALL RESERVA *
*
*   4 : MODIFY RESERVATI *
*
*   5 : DELETE RESERVATI *
*
*   6 : SHOW ROOM STATUS *
*
*   7 : ROOM OR SERVICE *
*
*   8 : MAKE A BILL      *
*
*   9 : EXIT              *
*
*
*
*
*   Enter Your Choice => _ *
*
*****
```

\*\*\*\*\* ENTER THE FOLLOWING DETAILS \*\*\*\*\*

<<< CUSTOMER INFORMATION >>>

First Name : \_  
Middle Name :  
Last Name :  
Address :  
Country :  
State :  
District/Town :  
City :  
Contact Number :

Customer Details....

<<< IDENTIFICATION INFORMATION >>>

Identification Type :  
ID Number :  
Ration Card Number :

<<< VEHICLE INFORMATION >>>

Vehicle Name :  
Vehicle Plate Number :

## 7. CONCLUSION

At the end of this coursework, I was able to:

- Explain object oriented programming concepts and apply them to the modelling of real world systems.
- Explain the object oriented paradigm and utilisation of the offered facilities.
- Demonstrate the ability to develop and derive new class structures and organise them such that they will model real world systems within computers.

## 8. REFERENCES

1. Balaguruswamy I E,(2006),” Object Oriented Programming with C++”. 3rd ed. Tata McGraw-Hill Publishing Company Limited Pages 54 - 68.
2. <http://v2.cplusplus.com/forum/lounge/12685/> (CODER)